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TITLE: Method for inductively  
heating a substrate and a  
coating on a substrate

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CLAIMS:

1. Method for heating a substrate and a coating on said substrate comprising applying on the coating a susceptor element, wherein said susceptor and substrate are inductively heatable, and inductively energizing the element and substrate to cause said substrate and coating to be heated.

2. Method as claimed in claim 1 wherein a heat insulation material is provided on an outer side of the susceptor element.

3. Method as claimed in claim 1 wherein a inner heat insulation material is interposed between the susceptor element and the coating.
4. Method as claimed in claim 5 wherein the inner insulation material includes a release layer.
5. Method as claimed in claim 1 wherein the susceptor is perforate or foraminous.
6. Method as claimed in claim 1 wherein the susceptor element provides an open circuit.
7. Method as claimed in claim 1 wherein the susceptor element provides a closed circuit.
8. Method of repairing an opening in a coating on a substrate comprising heating said coating employing a heating method as claimed in any of claim 1 to heat the coating before applying a patch.
9. Method as claimed in claim 8 comprising heating said coating to at least an activation temperature for said patch or for a coating on said patch.
10. Method as claimed in claim 8 wherein the substrate is a tubular article and the susceptor element is curved to conform to a surface curvature of the article.
11. Method of applying a coating or covering to a weld joint between tubular

substrates each having a mainline coating,  
comprising heating said substrates  
and coatings employing a heating method as claimed  
in claim 1 before applying  
said coating or covering.

12. Method as claimed in claim 11 wherein said  
covering comprises a heat  
shrink sleeve and said heating method comprises  
heating each mainline coating  
adjacent the weld joint, and wherein each susceptor  
element comprises a band  
form element applied around the girth of the  
mainline coating of the tubular  
substrate adjacent the weld joint.

13. Method as claimed in claim 12 including  
heating each coating and substrate  
adjacent the weld joint to at least an activation  
temperature for the sleeve or  
for a coating on the sleeve.

14. Method as claimed in claim 1 wherein the  
coating comprises polyolefin.

15. Method as claimed in claim 14 wherein the  
polyolefin is polypropylene.

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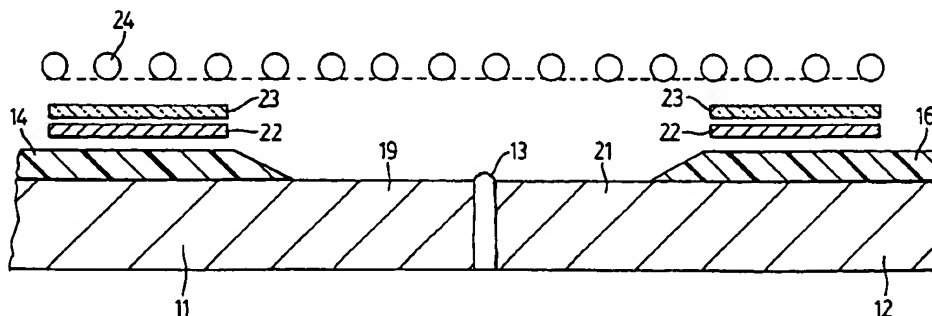
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR INDUCTIVELY HEATING A SUBSTRATE AND A COATING ON SAID SUBSTRATE



(57) Abstract: A method of heating a substrate (11, 12) and a coating (14, 16) on the substrate (11, 12). A susceptor element (22) is applied on the coating (14, 16) and the element (22) and the substrate (11, 12) are inductively energized to cause the substrate (11, 12) and the coating (14, 16) to be heated.

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## INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

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B29L23:00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 016, no. 153 (M-1235), 15 April 1992 (1992-04-15) - & JP 04 007124 A (DAI ICHI HIGH FREQUENCY CO LTD; OTHERS: 01), 10 January 1992 (1992-01-10)	1,6,7, 10,14,15
A	abstract	2-5,8,9, 11-13
A	EP 0 222 643 A (HUTCHINSON) 20 May 1987 (1987-05-20) claims 1,3,6; figure 3	1-15
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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